



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/911,826A
Source: 1600
Date Processed by STIC: 7/31/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



1600

RAW SEQUENCE LISTING

DATE: 07/31/2003

PATENT APPLICATION: US/09/911,826A

TIME: 15:09:31

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\I911826A.raw

3 <110> APPLICANT: ROTIN, Daniela
 4 PHAM, Nam
 6 <120> TITLE OF INVENTION: RAS Activator Nucleic Acid Molecules, Polypeptides and
 7 Methods of Use
 9 <130> FILE REFERENCE: DWW-5001-US
 11 <140> CURRENT APPLICATION NUMBER: 09/911,826A
 C--> 12 <141> CURRENT FILING DATE: 2001-07-20
 14 <150> PRIOR APPLICATION NUMBER: 2,259,830
 15 <151> PRIOR FILING DATE: 1999-01-20
 17 <160> NUMBER OF SEQ ID NOS: 28
 19 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

1554 <210> SEQ ID NO: 28
 1556 <211> LENGTH: 149
 1558 <212> TYPE: PRT
 1560 <213> ORGANISM: Mus musculus
 1564 <400> SEQUENCE: 28
 1566 Gly Gly Lys Asp Val Ser Ala Glu Ala Glu Ser Ser Ser Met Val Pro
 1567 1 5 10 15
 1570 Val Thr Thr Glu Glu Ala Lys Pro Val Pro Met Pro Ala His Ile Ala
 1571 20 25 30
 1574 Val Thr Pro Ser Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg
 1575 35 40 45
 1578 Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly Tyr Val Gly Ile Pro Ile
 1579 50 55 60
 1582 Ala Asp Phe Pro Glu Gly Pro Cys His Pro Ala Arg Lys Pro Pro Asp
 1583 65 70 75 80
 1586 Tyr Asn Val Ala Leu Gln Arg Ser Arg Met Val Ala Arg Pro Thr Glu
 1587 85 90 95
 1590 Ala Pro Ala Pro Gly Gln Thr Pro Pro Ala Ala Ala Ala Ser Arg Pro
 1591 100 105 110
 1594 Gly Ser Lys Pro Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu
 1595 115 120 125
 1598 Ala Pro Phe Gln Ala Gly Phe Ala Gly Ala Glu Glu Asp Glu Asp Glu
 1599 130 135 140
 1602 Gln Val Ser Ala Val

E--> 1604 1

E--> 1606 29

delete

see pp 2-3 for more errors

<210> 4
 <211> 286
 <212> PRT
 <213> Homo sapiens

<400> 4

Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu
1				5					10						15
Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ser	Gly	Gly	Lys	Asp
			20					25					30		
Val	Ser	Ala	Glu	Ala	Glu	Ser	Ser	Ser	Met	Val	Pro	Val	Thr	Thr	Glu
		35					40					45			
Glu	Ala	Lys	Pro	Val	Pro	Met	Pro	Ala	His	Ile	Ala	Val	Thr	Pro	Ser
	50					55					60				
Thr	Thr	Lys	Gly	Leu	Ile	Ala	Arg	Lys	Glu	Gly	Arg	Tyr	Arg	Glu	Pro
	65				70					75					80
Pro	Pro	Thr	Pro	Pro	Gly	Tyr	Val	Gly	Ile	Pro	Ile	Ala	Asp	Phe	Pro
				85					90					95	
Glu	Gly	Pro	Cys	His	Pro	Ala	Arg	Lys	Pro	Pro	Asp	Tyr	Asn	Val	Ala
			100					105					110		
Leu	Gln	Arg	Ser	Arg	Met	Val	Ala	Arg	Pro	Thr	Glu	Ala	Pro	Ala	Pro
		115						120				125			
Gly	Gln	Thr	Pro	Pro	Ala	Ala	Ala	Ala	Ser	Arg	Pro	Gly	Ser	Lys	Pro
	130					135					140				
Gln	Trp	His	Lys	Pro	Ser	Asp	Ala	Asp	Pro	Arg	Leu	Ala	Pro	Phe	Gln
145					150					155					160
Ala	Ala	Ser	His	Ser	Gly	Thr	Ser	Pro	Ala	Thr	Gln	Thr	His	Ala	Ser
				165					170					175	
Arg	Pro	Ser	Arg	Gln	Ala	Ser	Gln	Glu	Arg	Arg	Arg	Thr	Lys	Met	Asn
		180						185					190		
Lys	Cys	Leu	Leu	Phe	Glu	Ala	Gln	Ala	Pro	(Xaa)	Ser	Thr	Val	Ser	His
		195					200					205			
Pro	Lys	Glu	Ser	Thr	Arg	Arg	Arg	Pro	Lys	Pro	Trp	Ser	Leu	Gly	Thr
	210					215					220				
His	Ile	(Xaa)	Gly	Trp	Trp	Thr	Ser	Leu	Pro	Pro	Ser	Leu	Pro	(Xaa)	Ser
225					230					235					240
Ser	Met	Gly	Leu	Leu	Leu	Pro	Phe	Phe	Leu	Ser	Pro	Leu	His	Val	Lys
			245					250						255	
Tyr	Cys	Glu	Glu	Ile	Ala	Leu	Ala	Leu	Cys	Arg	Leu	Val	Ala	(Xaa)	Asn
		260						265						270	

See p. 4
 for error
 explanation

C9/911826A

3

Ala Gln Pro Ser Ser Pro Xaa Ala Ala Ala Cys His Val Thr
275 280 285

sup 4

4

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/911,826A

DATE: 07/31/2003

TIME: 15:09:32

error explanation

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\I911826A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:4; Xaa Pos. 203,227,239,271,279

Seq#:5; Xaa Pos. 16,18,45,59,61,151,166,215

Seq#:6; Xaa Pos. 1,35,123,178,239

Seq#:15; Xaa Pos. 50

*These sequences are correct, too.
no Xaa explanations*

VERIFICATION SUMMARY

DATE: 07/31/2003

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\I911826A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:407 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:1236 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:15
L:1236 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:15
L:1236 M:341 W: (45) "n" or "Xaa" used, for SEQ ID#:15 after pos.:48
L:1604 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28